

Mockito exercises

Exercise 2: Verifying Interactions

Scenario: You need to ensure that a method is called with specific arguments.

Steps:

1. Create a mock object.
2. Call the method with specific arguments.
3. Verify the interaction.

Solution Code:

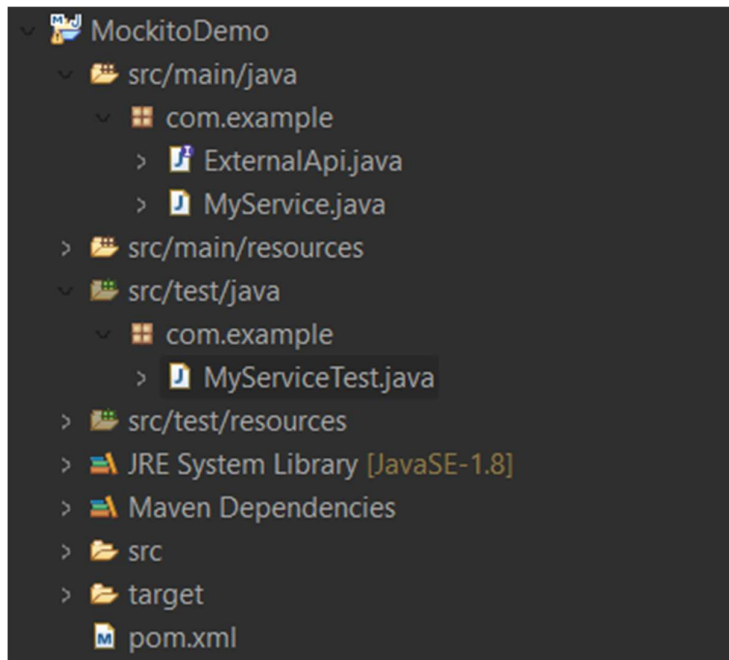
```
import static org.mockito.Mockito.*;
import org.junit.jupiter.api.Test;
import org.mockito.Mockito;

public class MyServiceTest {

    @Test public void testVerifyInteraction() {
        ExternalApi mockApi = Mockito.mock(ExternalApi.class);
        MyService service = new MyService(mockApi);
        service.fetchData();

        verify(mockApi).getData();
    }
}
```

The below is the Project Explorer of my Maven Project



As I am using Maven project I have added dependencies to my pom.xml

```
https://maven.apache.org/xsd/maven-4.0.0.xsd (xsi:schemaLocation)
1 <project xmlns="http://maven.apache.org/POM/4.0.0"
2   xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
3   xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 https://maven.apache.org/xsd/maven-4.0.0.xsd">
4   <modelVersion>4.0.0</modelVersion>
5   <groupId>com.example</groupId>
6   <artifactId>MockitoDemo</artifactId>
7   <version>0.0.1-SNAPSHOT</version>
8   <dependencies>
9
10  <dependency>
11    <groupId>junit</groupId>
12    <artifactId>junit</artifactId>
13    <version>4.13.2</version>
14    <scope>test</scope>
15  </dependency>
16
17  <dependency>
18    <groupId>org.mockito</groupId>
19    <artifactId>mockito-core</artifactId>
20    <version>5.12.0</version>
21    <scope>test</scope>
22  </dependency>
23 </dependencies>
24 </project>
```

Created a class name ExternalApi.java

```
1 package com.example;
2
3 public interface ExternalApi {
4     String getData();
5 }
6
```

Created a class name MyService.java

```
1 package com.example;
2
3 public class MyService {
4     private ExternalApi externalApi;
5     public MyService(ExternalApi externalApi) {
6         this.externalApi=externalApi;
7     }
8     public String fetchData() {
9         return externalApi.getData();
10    }
11 }
```

Created a class name MyServiceTest.java

```
1 package com.example;
2
3 import static org.mockito.Mockito.*;
4
5 import org.junit.Test;
6
7 public class MyServiceTest {
8     @Test
9     public void testVerifyInteraction() {
10         ExternalApi mockApi = mock(ExternalApi.class);
11
12         MyService service = new MyService(mockApi);
13         service.fetchData();
14
15         verify(mockApi).getData();
16     }
17 }
18
```

As the run was successful for my test class I can see a greenbar with runs 1/1 and failures 0

